



Office of the Project Manager - Night Vision/Reconnaissance, Surveillance, and Target Acquisition

Armaments for the Army of the Future Symposium and Exhibition

Presented by: COL Jeffrey A. Sorenson
Project Manager
23 June 1998

IEW&S
PROGRAM EXECUTIVE OFFICE

FY98 Organization

PM
NV/RSTA

1 Program Office
3 Project Manager Offices
8 Product Manager Offices

MIL CIV
37 119

PEO IEW&S



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JPSD



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To be determined

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MIL
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JTT/CIBS-M



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SGF



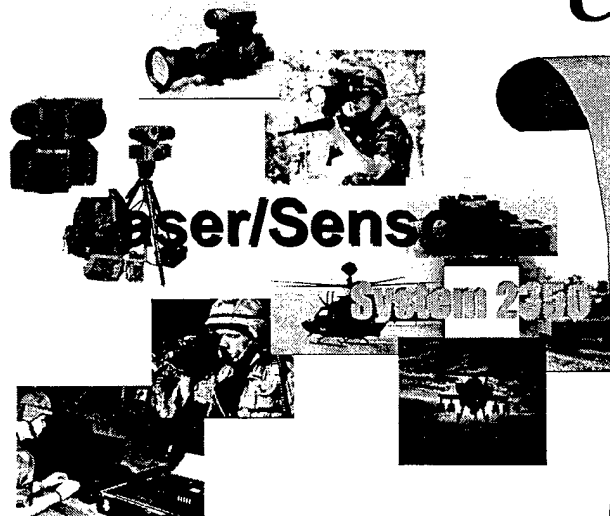
Curtis McCoy
LTC, AR
Product Manager
(703) 704-1192



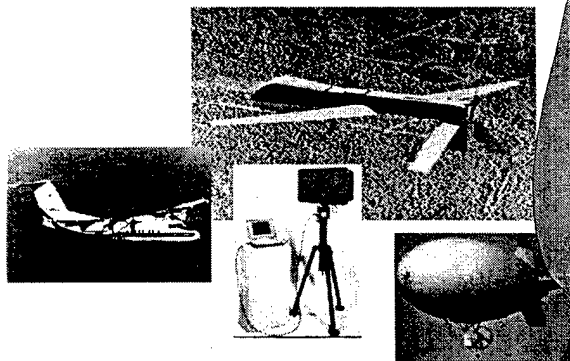
Project Manager - Night Vision/Reconnaissance, Surveillance, and Target Acquisition



Chartered Programs



Radar



PROJECT MANAGER

Night Vision / Reconnaissance, Surveillance
and Target Acquisition (PM NV/RSTA)

... You will, as the responsible management official, provide overall direction and guidance for the development, acquisition, testing, product improvements and fielding of assigned programs, to include Infrared Capabilities, Thermal Programs, Laser Programs, Electro-Optical Systems, Electro-Optical Countermeasure Systems, Hosted Moving Target Indicator/Synthetic Aperture Radar Payloads, Image Intensification Programs, associated unique test equipment, and the systems integration of relevant multi-sensor suites...

Responsible for... Horizontal Technology
Integration opportunities... and interoperability.

Program Executive Officer
Intelligence, Electronic Warfare, and Sensors



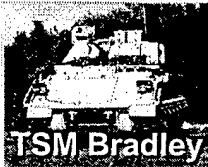
Thermal



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PM NV/RSTA Army Customers



Fort Benning, GA

TSM FSCS



Fort Knox, KY



Fort Rucker, AL



Fort Sill, OK



Fort Huachuca, AZ

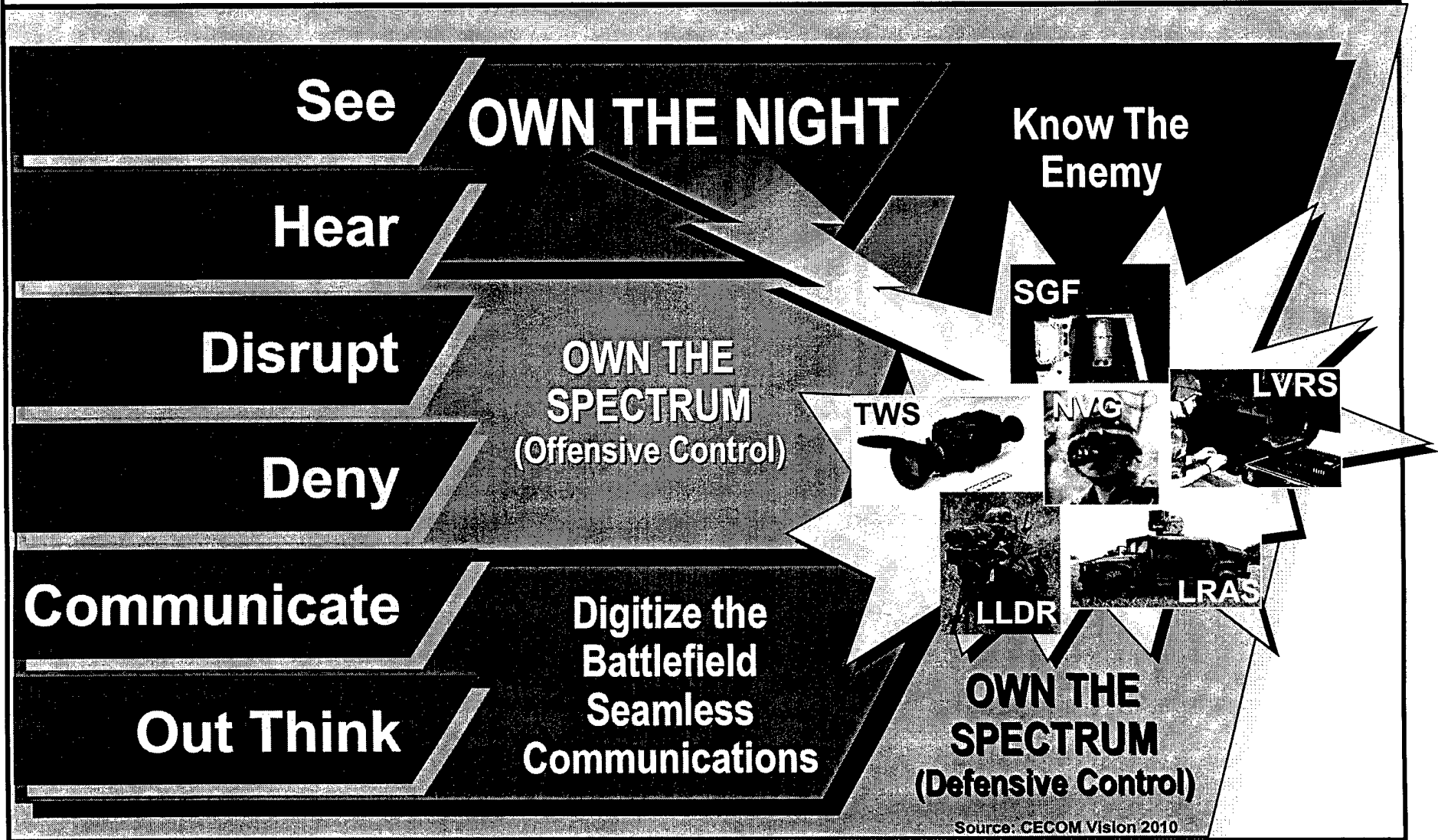


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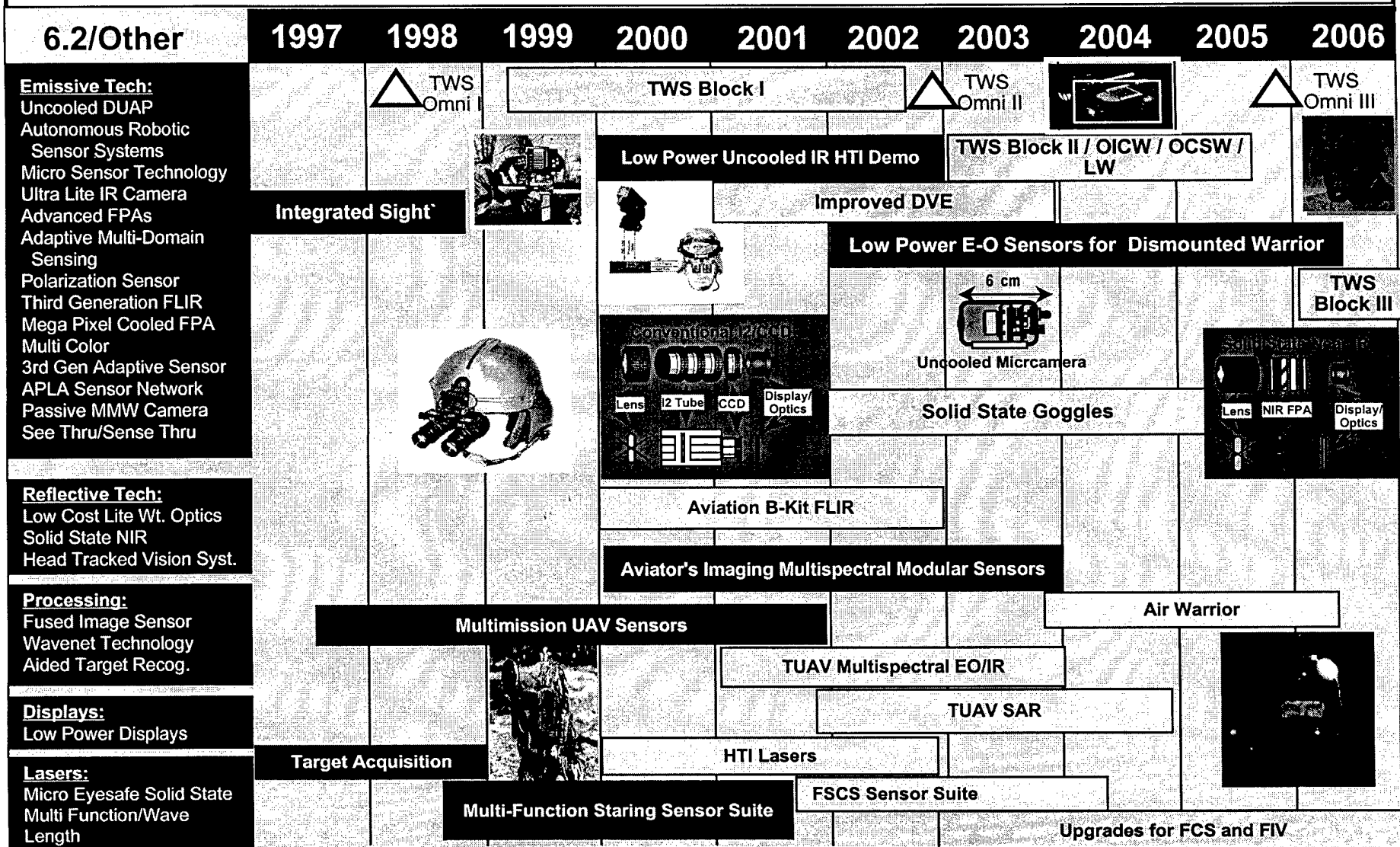
Technology & Systems Changing the Face of the Battlefield



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S&T Transition Plans



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I2 Devices - Night Vision Goggles (NVG)

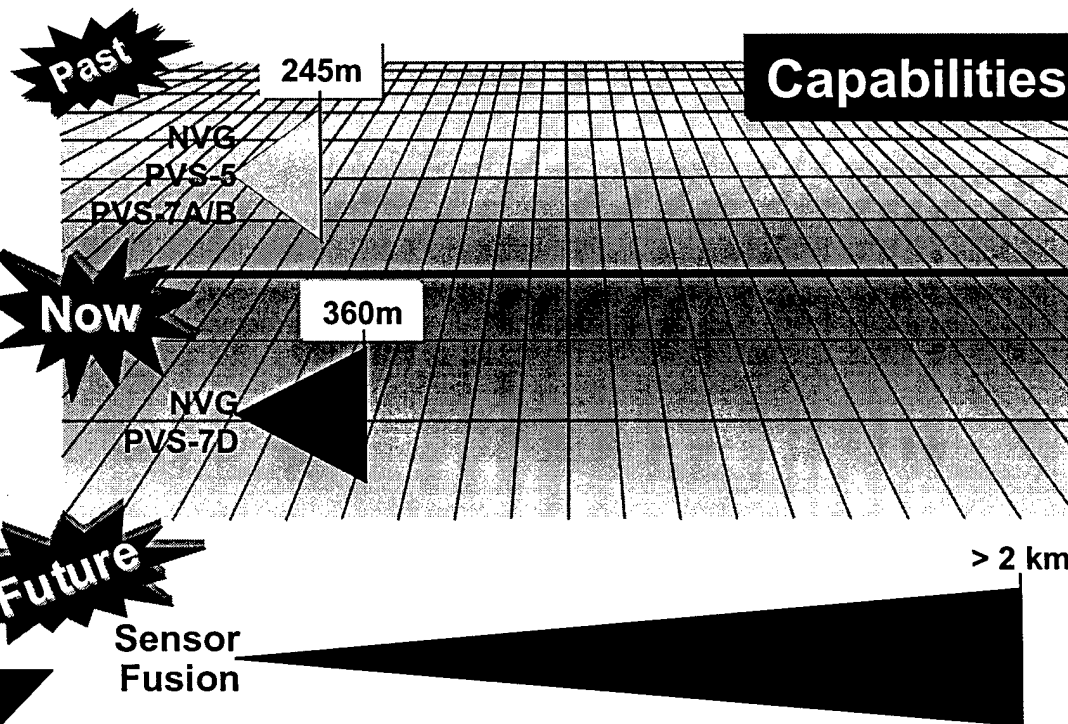
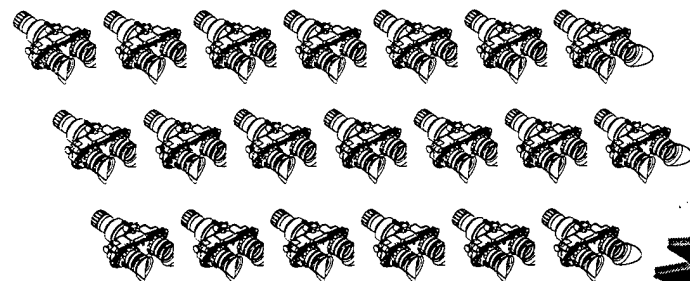


Extends the Battlespace for **FORCE PROTECTION**

Desert Storm



Current



**280%
INCREASE**

Sensor Fusion FUE: FY05

= 10000 systems

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Omni IV Gen III Gives Increased Brightness & Image Clarity



PERFORMANCE COMPARISONS

*Clear Starlight Conditions
($\sim 10^{-4}fc$)*



Gen II



Omnibus II Gen III



Omnibus IV Gen III

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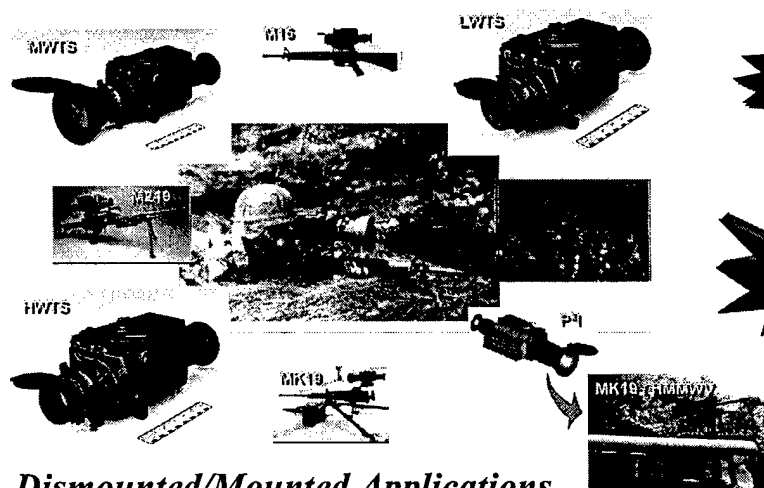
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Thermal Weapon Sight (TWS)

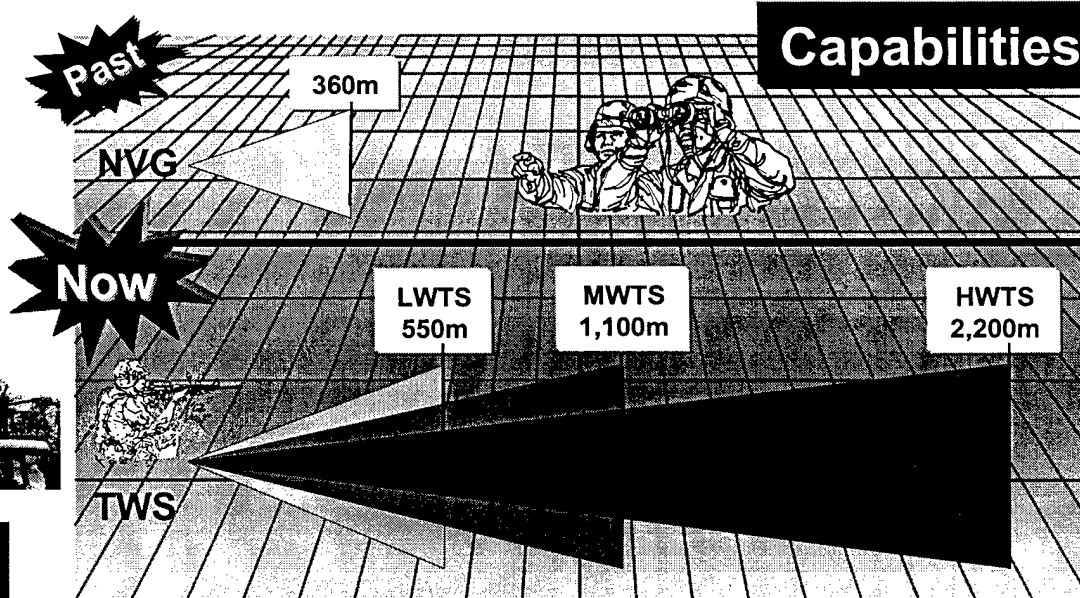


Brings the Darkness Into Focus - The Soldiers Night Eyes for PRECISION ENGAGEMENT



Dismounted/Mounted Applications

| | Range | Objective Weight | FOV |
|------|-------|------------------|-----|
| LWTS | 550m | 3.0 lbs | 27° |
| MWTS | 1100m | 4.5 lbs | 9° |
| HWTS | 2200m | 5.0 lbs | 4° |



FUE: FY98

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Long Range Scout Surveillance System (LRAS3)



HMMWV Mounted

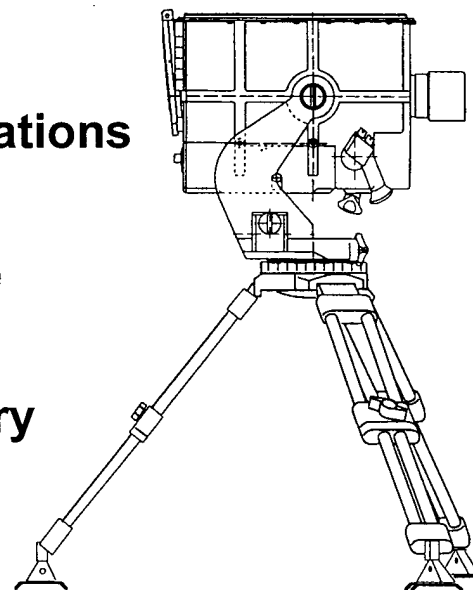


Key Performance Parameters

- Long Range Target Acquisition
- Far Target Location
- System Weight
- FBCB2 Interface
- Dismounted Operations

Dismounted Tripod

- 6 Hours Operations
(-20 to +55 C)
- Rechargeable
Batteries
- Vehicle Battery
Charger



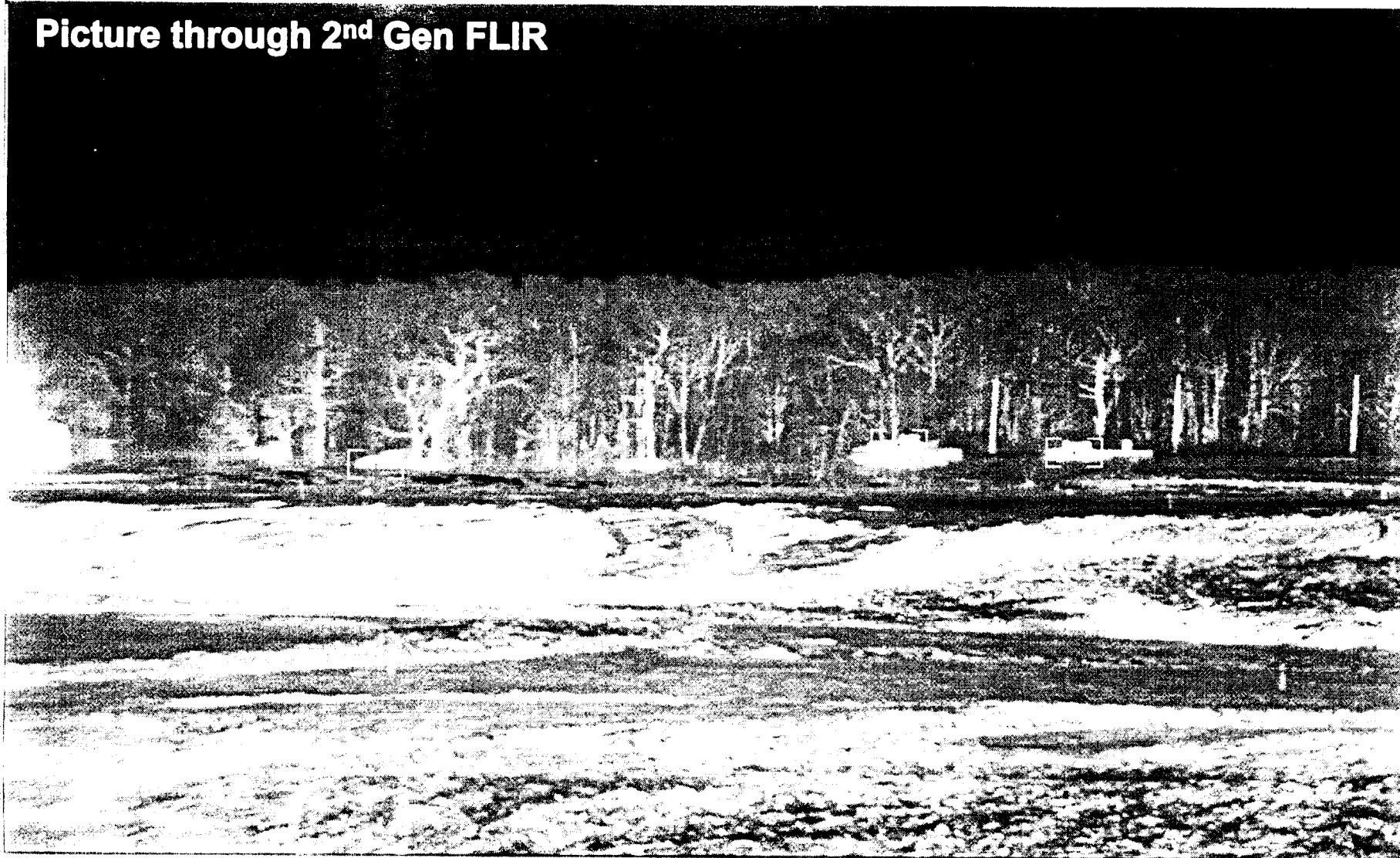
FUE: FY01



2nd Generation FLIR



Picture through 2nd Gen FLIR



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Lightweight Laser Designator Rangefinder (LLDR)

**PM
NV/RSTA**
Past

- G/VLLD and Night Sight
Weight - 109 lbs
- No Digital Target
Hand-off Capability

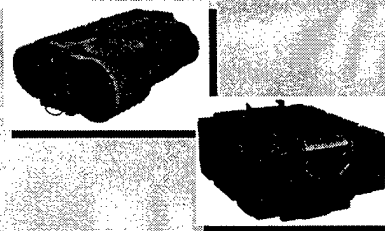
Now


Key Performance Parameters

- Total System Weight - <35 lbs
- Target Recognition - 6 km (day)
2 km (night)
- Laser Designation - 5 km (stationary)
3 km (moving)
- Target Location Accuracy - 80 m CEP
@ 9,995 m
- Eyesafe Rangefinder - Up to 10 km

System Description

- Joint Army/ USMC EMD Program
- Mission Configurable Modular Design
(2-man portable)
- "See Spot" Boresight Capabilities
- Embedded GPS
- 640 x 480 FLIR
- Digital Target
Hand-off Capability


FUE: FY01

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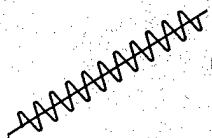
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Lightweight Video Reconnaissance System (LVRS)



***Extends the Battlespace for FORCE PROTECTION -
Widens the Safety Zone for Recon Soldiers***

Past



SALUTE Report

Now



Out Station

Base Station



► **Manportable**

► **Near *REAL TIME* Imagery**

► **Target Data Dissemination**

- **Night - 500m**
- **Day - 1.5km**

FUE: FY98

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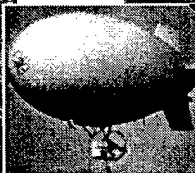
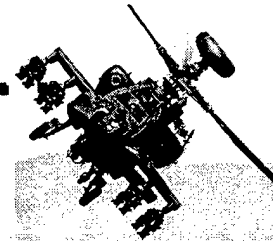
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*Project Manager Night Vision / Reconnaissance,
Surveillance and Target Acquisition*



PM-NV/RSTA Products . . .

Support the Ultimate Customer . . .

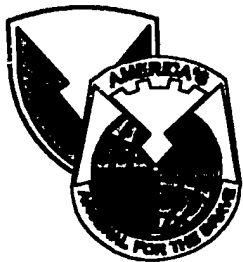


The American Warfighter



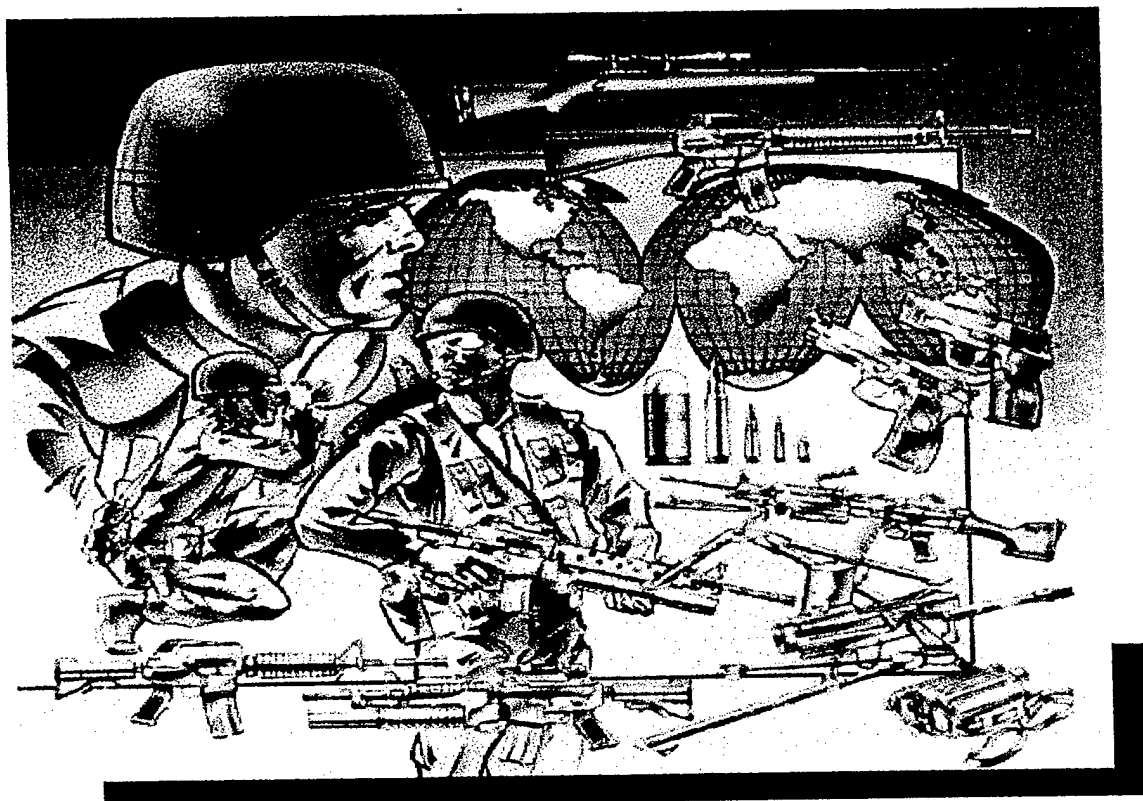
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300



TACOM

***Mobility and Firepower
for America's Army***



NDIA Armaments for the Army of the Future

**An International Symposium
& Exhibition**

June 23 - 24, 1998

Parsippany, NJ

**LTC W. Irish
PM Small Arms**

Tank-automotive & Armaments COMMAND
Committed to Excellence